



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Bruce Techentien, Tommy Grigsby,  
Bryon Mullen and David Henderson

Serial No.: 10/680,625

Filed: October 7, 2003

Entitled: DOWNHOLE FIBER OPTIC WET  
CONNECT AND GRAVEL PACK  
COMPLETION

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

As listed on the accompanying form PTO-SB-08, the Applicants hereby call the examiner's attention to the following information of which they are aware, in respect of which there may be a duty to disclose in accordance with 37 CFR §1.56. Copies of the listed references, other than U.S. patents, are enclosed with this Information Disclosure Statement.

U.S. Patents:

6,464,405    6,439,778    6,332,787    5,803,167

Publications:

Intelligent Wells, "Optical Fiber Technology," dated October, 2002

Intelligent Wells, "Oil field Applications of HydrOptics Technology," dated October, 2002

World Oil, "World's first multiple fiber-optic intelligent well," dated March, 2003

Underwater Magazine, "Underwater Mateable Connectors in the Military and Telecom Sectors," dated September/October, 2002

Sea Technology, "The Ruggedization of Hybrid Wet-Mate Connectors," dated July, 2000

Sea Technology, "Optical Fiber and Connectors: Critical for Future Subsea Systems," undated

OTC 15323, "The Development and Application of HT/HP Fiber-Optic Connectors for use on Subsea Intelligent Wells," dated 2003

Journal of Petroleum Technology, "Development of HP/HT Fiber-Optic Connectors for Subsea Intelligent Wells," dated August, 2003

Sea Technology, "Hybrid Wet-Mate Connectors: 'Writing the Next Chapter,'" dated July, 1997

Tronic, "Tronic Fibre Optic Wellhead Feedthrough Connectors," undated

Tronic, "FireFly Project," undated

OTC 13235, "Extending Tieback Distances: Wet-Mate Connectors, Enabling Technologies for Critical Systems Developments," dated 2001

Ocean Design, "Underwater Mateable Connectors: Enabling Technology and the Next Step in Performance for Navy and Telecom Applications," presented at Underwater Intervention Conference, 2002

W Magazine, "Intelligent Well Completion, the next steps," dated September, 2002

Production Optimization, "Intelligent Completions," undated

Seacon, "MicroStar, 4-channel, Wet-Mate, Optical Connector," undated

Ocean Design, Inc., "Ocean Design Introduces New I-CONN Product Line," dated July 22, 2002

Weatherford, "Intelligent Well Briefing," dated May 14, 2003

"Pioneering Fibre Optic Completion Installation in the Mahogany Field, Offshore Trinidad," undated

PES, "Model OF Fibre Optic Orientating Disconnect Head," dated October 23, 2000

SPE 71676, "The Use of Fiber-Optic Distributed Temperature Sensing and Remote Hydraulically Operated Interval Control Vlaves for the Management of Water Production in the Douglas Field," dated 2001

SPE 84324, "Brunei Field Trial of a Fibre Optic Distributed Temperature Sensor (DTS) System in a 1,000 m Open Hole Horizontal Oil Producer," dated 2003

This Information Disclosure Statement is being filed under the provisions of 37 CFR §1.97(b)(3), which provides for the timely filing of an Information Disclosure Statement before the mailing of a first Office Action on the merits.

The filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made, an admission that the information cited is, or is considered to be, material to patentability, or that no other material information exists. Further, the filing of this Information Disclosure Statement shall not be construed as an admission against interest in any manner.

Written notification that the enclosed documents have been considered in their entirety, by return of a copy of the enclosed form completed by the examiner, is respectfully requested.

Respectfully submitted,

KONNEKER & SMITH, P.C.



Marlin R. Smith  
Attorney for Applicants  
Registration No. 38,310

Dated: *Nov. 11, 2003*

660 North Central Expressway  
Suite 230  
Plano, Texas 75074  
(972) 516-0030

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450,

on November 19, 2003  
Charity Fair



Please type a plus sign (+) inside this box → +

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE  
Part 1 of 5 sections. A continuation of a previous OMB control number.

**Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.**

NOV 24 2003

**Substitute for form 1449A/PTO**

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

*(use as many sheets as necessary)*

Sheet 1 of 3

Substitute for form 1449A/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				Application Number	10/680,625
				Filing Date	OCTOBER 7, 2003
				First Named Inventor	BRUCE TECHENTIEN
				Group Art Unit	UNASSIGNED
				Examiner Name	UNASSIGNED
Sheet	1	of	3	Attorney Docket Number	2002-IP-009328 U1 USA

## **U.S. PATENT DOCUMENTS**

## **FOREIGN PATENT DOCUMENTS**

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231.  
**DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231

O I P E  
NOV 24 2003  
U. S. PATENT & TRADEMARK OFFICE

Please type a plus sign (+) inside this box →

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

2

of

3

**C mplete if Known**

Application Number	10/680,625
Filing Date	OCTOBER 7, 2003
First Named Inventor	BRUCE TECHENTIEN
Group Art Unit	UNASSIGNED
Examiner Name	UNASSIGNED
Attorney Docket Number	2002-IP-009328 U1 USA

**OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS**

Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		INTELLIGENT WELLS, "OPTICAL FIBER TECHNOLOGY," dated OCTOBER, 2002	
		INTELLIGENT WELLS, "OIL FIELD APPLICATIONS OF HYDROPTICS TECHNOLOGY," dated OCTOBER, 2002	
		WORLD OIL, "WORLD'S FIRST MULTIPLE FIBER-OPTIC INTELLIGENT WELL," dated MARCH, 2003	
		UNDERWATER MAGAZINE, "UNDERWATER MATEABLE CONNECTORS IN THE MILITARY AND TELECOM SECTORS," dated SEPTEMBER/OCTOBER, 2002	
		SEA TECHNOLOGY, "THE RUGGEDIZATION OF HYBRID WET-MATE CONNECTORS," dated JULY, 2000	
		SEA TECHNOLOGY, "OPTICAL FIBER AND CONNECTORS: CRITICAL FOR FUTURE SUBSEA SYSTEMS," undated	
		OTC 15323, "THE DEVELOPMENT AND APPLICATION OF HT/HP FIBER-OPTIC CONNECTORS FOR USE ON SUBSEA INTELLIGENT WELLS," dated 2003	
		JOURNAL OF PETROLEUM TECHNOLOGY, "DEVELOPMENT OF HP/HT FIBER-OPTIC CONNECTORS FOR SUBSEA INTELLIGENT WELLS," dated AUGUST, 2003	
		SEA TECHNOLOGY, "HYBRID WET-MATE CONNECTORS: 'WRITING THE NEXT CHAPTER,'" dated JULY, 1997	
		TRONIC, "TRONIC FIBRE OPTIC WELLHEAD FEEDTHROUGH CONNECTORS," undated	
		TRONIC, "FIREFLY PROJECT," undated	

Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box → +

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.



Substitute for form 1449B/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

3

of

3

**Complete If Known**

Application Number	10/680,625
Filing Date	OCTOBER 7, 2003
First Named Inventor	BRUCE TECHENTIEN
Group Art Unit	UNASSIGNED
Examiner Name	UNASSIGNED
Attorney Docket Number	2002-IP-009328 U1 USA

**OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS**

Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		OTC 13235, "EXTENDING TIEBACK DISTANCES: WET-MATE CONNECTORS, ENABLING TECHNOLOGIES FOR CRITICAL SYSTEMS DEVELOPMENTS," dated 2001	
		OCEAN DESIGN, "UNDERWATER MATEABLE CONNECTORS: ENABLING TECHNOLOGY AND THE NEXT STEP IN PERFORMANCE FOR NAVY AND TELECOM APPLICATIONS," PRESENTED AT UNDERWATER INTERVENTION CONFERENCE, 2002	
		W MAGAZINE, "INTELLIGENT WELL COMPLETION, THE NEXT STEPS," dated SEPTEMBER, 2002	
		PRODUCTION OPTIMIZATION, "INTELLIGENT COMPLETIONS," undated	
		SEACON, "MICROSTAR, 4-CHANNEL, WET-MATE, OPTICAL CONNECTOR," undated	
		OCEAN DESIGN, INC., "OCEAN DESIGN INTRODUCES NEW I-CONN PRODUCT LINE," dated JULY 22, 2002	
		WEATHERFORD, "INTELLIGENT WELL BRIEFING," dated MAY 14, 2003	
		"PIONEERING FIBRE OPTIC COMPLETION INSTALLATION IN THE MAHOGANY FIELD, OFFSHORE TRINIDAD," undated	
		PES, "MODEL FO FIBRE OPTIC ORIENTATING DISCONNECT HEAD," dated OCTOBER 23, 2000	
		SPE 71676, "THE USE OF FIBER-OPTIC DISTRIBUTED TEMPERATURE SENSING AND REMOTE HYDRAULICALLY OPERATED INTERVAL CONTROL VALVES FOR THE MANAGEMENT OF WATER PRODUCTION IN THE DOUGLAS FIELD," dated 2001	
		SPE 84324, "BRUNEI FIELD TRIAL OF A FIBRE OPTIC DISTRIBUTED TEMPERATURE SENSOR (DTS) SYSTEM IN A 1,000 m OPEN HOLE HORIZONTAL OIL PRODUCER," dated 2003	

Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

